

WE CLAIM:

1. A multi-frequency antenna comprising:

a first antenna element having

5 a first antenna member for receiving and transmitting signals in a first frequency band, said first antenna member having opposite first and second ends, and

10 a second antenna member for receiving and transmitting signals in a second frequency band, said second antenna member having opposite third and fourth ends respectively disposed adjacent to and remote from said first end of said first antenna member, said fourth end of said second antenna member being connected electrically to said first end of said first antenna member so as to form a feed point at a junction of said fourth end of said second antenna member and said first end of said first antenna member; and

20 a C-shaped second antenna element having opposite ends, one of which is connected electrically to said third end of said second antenna member of said first antenna element.

2. The multi-frequency antenna as claimed in Claim 1, wherein said first and second antenna elements are disposed in a common plane.

25 3. The multi-frequency antenna as claimed in Claim 1, wherein said first antenna member of said first antenna element is surrounded by said second antenna element.

4. The multi-frequency antenna as claimed in Claim 1, wherein at least one of said first and second antenna members has a serpentine configuration.

5 5. The multi-frequency antenna as claimed in Claim 1, wherein at least one of said first and second antenna members has a helical configuration.